



Optimized Method for Preparation of DNA from Pathogenic and Environmental Mycobacteria

Submitted by Emmanuel Lemoine on Thu, 10/16/2014 - 14:04

Titre	Optimized Method for Preparation of DNA from Pathogenic and Environmental Mycobacteria
Type de publication	Article de revue
Auteur	Käser, Michael [1], Ruf, Marie-Thérèse [2], Hauser, Julia [3], Marsollier, Laurent [4], Pluschke, Gerd [5]
Editeur	American Society for Microbiology
Type	Article scientifique dans une revue à comité de lecture
Année	2009
Langue	Anglais
Date	2009/01/15
Numéro	2
Pagination	414 - 418
Volume	75
Titre de la revue	Applied and Environmental Microbiology
ISSN	0099-2240
Résumé en anglais	<p>Genomic studies on pathogenic and environmental mycobacteria are of growing interest for understanding of their evolution, distribution, adaptation, and host-pathogen interaction. Since most mycobacteria are slow growers, material from in vitro cultures is usually scarce. The robust mycobacterial cell wall hinders both experimental cell lysis and efficient DNA extraction. Here, we compare elements of several DNA preparation protocols and describe a method that is economical and practical and reliably yields large amounts—usually 10-fold increased compared to earlier protocols—of highly pure genomic DNA for sophisticated downstream applications. This method was optimized for cultures of a variety of pathogenic and environmental mycobacterial species and proven to be suitable for direct mycobacterial DNA extraction from infected insect specimens.</p>
URL de la notice	http://okina.univ-angers.fr/publications/ua4922 [6]
DOI	10.1128/AEM.01358-08 [7]
Lien vers le document	http://dx.doi.org/10.1128/AEM.01358-08 [7]

Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=8045](http://okina.univ-angers.fr/publications?f[author]=8045)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=8046](http://okina.univ-angers.fr/publications?f[author]=8046)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=8047](http://okina.univ-angers.fr/publications?f[author]=8047)
- [4] <http://okina.univ-angers.fr/laurent.marsollier/publications>
- [5] [http://okina.univ-angers.fr/publications?f\[author\]=8048](http://okina.univ-angers.fr/publications?f[author]=8048)

[6] <http://okina.univ-angers.fr/publications/ua4922>

[7] <http://dx.doi.org/10.1128/AEM.01358-08>

Publié sur *Okina* (<http://okina.univ-angers.fr>)